



CTAGE2 (K-13): sc-68040

BACKGROUND

Cutaneous T cell lymphomas (CTCL) represent a group of malignancies that originate from CD4-T lymphocytes and manifest on the skin. CTCL is a general term for several neoplasms including mycosis fungoides, T cell leukemia/lymphoma and pagetoid reticulosis, all of which are very difficult to treat in the advanced stages. CTAGE2 (cutaneous T cell lymphoma associated-antigen 2) is a member of the cancer/testis antigen family of proteins (CTAGE) that, under normal conditions, are found primarily in the testis with little or no expression in other parts of the body. CTAGE2 is a 754 amino acid protein that shares similarity with CTAGE1 but, unlike CTAGE1, is not found in tumors. CTAGE2 has two known isoforms and is the longer variant of CTAGE1.

REFERENCES

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2. Eichmüller, S. 2002. Towards defining specific antigens for cutaneous lymphomas. *Onkologie* 25: 448-454.
3. Eichmüller, S., Usener, D., Thiel, D. and Schadendorf, D. 2003. Tumor specific antigens in cutaneous T cell lymphoma: expression and sero reactivity. *Int. J. Cancer* 104: 482-487.
4. Usener, D., Schadendorf, D., Koch, J., Dübel, S. and Eichmüller, S. 2003. cTAGE: a cutaneous T cell lymphoma associated antigen family with tumor-specific splicing. *J. Invest. Dermatol.* 121: 198-206.
5. Atanackovic, D., Blum, I., Cao, Y., Wenzel, S., Bartels, K., Faltz, C., Hossfeld, D.K., Hegewisch-Becker, S., Bokemeyer, C. and Leuwer, R. 2006. Expression of cancer/testis antigens as possible targets for antigen-specific immunotherapy in head and neck squamous cell carcinoma. *Cancer Biol. Ther.* 5: 1218-1225.
6. Costa, F.F., Le Blanc, K. and Brodin, B. 2007. Concise review: cancer/testis antigens, stem cells, and cancer. *Stem Cells* 25: 707-711.

CHROMOSOMAL LOCATION

Genetic locus: CTAGE1 (human) mapping to 18p11.2.

SOURCE

CTAGE2 (K-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CTAGE2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-68040 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

CTAGE2 (K-13) is recommended for detection of protein CTAGE2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CTAGE2 siRNA (h): sc-62162.

Molecular Weight of CTAGE2: 86 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.